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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,296	12/09/2003		Christopher B. Reynolds	BUR920030102US1 (IBU-10-5	3650
26681	7590	11/03/2005		EXAM	INER
DRIGGS, I	LUCAS,	BRUBAKER &	LOKE, STEVEN HO YIN		
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DEPT. IEN			ART UNIT	PAPER NUMBER	
WILLOUGI	WILLOUGHBY HILLS, OH 44094				

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

6		ATC.					
	Application No.	Applicant(s)					
	10/731,296	REYNOLDS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Steven Loke	2811					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22	2 August 2005.						
2a) ☐ This action is FINAL . 2b) ☑ T	This action is FINAL . 2b)⊠ This action is non-final.						
•	•						
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 7-13 and 17 is/are pending in the	application.						
4a) Of the above claim(s) is/are without	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>7-12</u> is/are allowed.							
6)⊠ Claim(s) <u>13 and 17</u> is/are rejected.							
7) Claim(s) is/are objected to.	d/or election requirement						
8) Claim(s) are subject to restriction an	a/or election requirement.						
Application Papers		•					
9) The specification is objected to by the Exam							
10)☐ The drawing(s) filed on is/are: a)☐ a							
Applicant may not request that any objection to							
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:		119(a)-(d) or (f).					
 Certified copies of the priority docum Certified copies of the priority docum 		polication No					
2. Certified copies of the priority docum3. Copies of the certified copies of the priority docum							
application from the International Bur							
* See the attached detailed Office action for a	•	received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	· -	Summary (PTO-413) s)/Mail Date					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB 	/08) 5) Notice of I	nformal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:	_					

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Art Unit: 2811

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 13 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Schulz et al. (EP 0 271 596 A1 in the IDS filed on 12/9/03).

In regards to claim 13, Schulz et al. show all the elements of the claimed invention in fig. 4. It is a macro (A-H, J-K) for use in a field programmable gate array (the gate array that can be used to form logic, RAM and ROS (col. 8, lines 30-32)) embedded in a semiconductor chip, said macro containing a plurality of slices (A-H, J-K), each of which has a unique porosity factor representing wiring channel within the slice (col. 5, lines 14-16), the slices positioned at locations within the chip wherein the number of wiring channels in each slice corresponds to the number of circuit lines (global wires) in the chip passing through the macro at each location within the macro.

The process limitation how the wires (global wires) are formed has patentable weight in claim drawn to structure. Note that a product by process claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marosi et al, 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a product by process claim, and not the patentability of the process, and

that an old or obvious product by a new method is not patentable as a product, whether claimed in product by process claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear.

Thus, the phrase "pre-wired" is thus non-limiting.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schulz et al.

In regards to claim 17, Schulz et al. differ from the claimed invention by not showing the size of each slice corresponds the degree of porosity of the slice.

It would have been obvious for the size of each slice corresponds the degree of porosity of the slice because there would be more global wires in the slice as the number of circuits in slice and the size of the slice increase.

- 5. Claims 7-12 are allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 8:20 am to 5:50 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sl October 30, 2005 Steven Sohe